

ABSTRACT

ORTHOPAEDIC SURGERY PLANNING

5 A computer-implemented method of planning orthopaedic surgery comprises
providing a library of templates representing orthopaedic prostheses, displaying and
scaling one or more patient images such as X-ray images, allowing a user to
reconfigure geometrical constructs displayed over the images to match the construct
to anatomical features shown in the image; and selecting one or more templates from
10 the library in accordance with parameters of the reconfigured constructs. The
templates correspond to the orthopaedic prosthesis or prostheses which are most
suitable for the patient. Hip replacement surgery can be planned using a single patient
image. Knee surgery can be planned using two patient images showing different
views of the anatomical features, in which case geometrical constructs for use with
15 each view are provided. The library of templates is accessible via the Internet so as to
be accessible by users in any location and readily updateable.